

"Gazpromneft-lubricants", Ltd.
Office 40, 14/3 Krzhizhanovskogo Street,
Moscow, Russia, 117218



CERTIFICATE OF ANALYSIS № 18002664-OZSM

Gear oil Gazpromneft GL-5 80W-90
STO 84035624-068-2012 revision 1-3 OKPD 2 code
19.20.29.150

Declaration of Conformity
reg. number: EA ЭС № RU Д-РУ.НХ20.В.00589 on 16.07.2020
Company management is certified for compliance with the standards
ISO 9001: 2015, ISO 14001: 2015, OHSAS 18001: 2007

Tank: E-4 Level, cm: 214 Quantity, t: 123,2
Batch: 25536 Package: 527 drums of 205.0 L 96,9680 t

Date of produced: 26.03.2018

Date of sampling: 26.03.2018

| Characteristics | Test Method | TR of the CU limit | ND limit | Analysis result |
|---|---------------|--------------------|--|--|
| Kinematic viscosity at 100 °C, mm ² /s, in range | GOST 33 | - | 13,50 - 15,50 | 13,94 |
| Brookfield viscosity at minus 26 °C, mPa·s, max | ASTM D 2983 | - | 150000 | 58000 |
| Flash Point, COC, °C, min | GOST 4333 | 135 | 180 | 232 |
| Pour Point, °C, max | GOST 20287 | - | Minus 30 | Minus 40 |
| Mechanical impurities, wt %, max | GOST 6370 | 0,03 | Absence | Absence |
| Water content, wt %, max | GOST 2477 | - | Traces | Traces |
| Phosphorus content, wt %, in range | ASTM D 6481 | - | 0,03 - 0,05 | 0,05 |
| Foaming tendency, ml, max | ASTM D 892 | - | 50 | 10 |
| - Seq. I | | | 50 | 30 |
| - Seq. II | | | 50 | 10 |
| Tribological characteristics, Four-Ball Method | GOST 9490 | - | 559,0 | 632,6 |
| load-wear index, N, min | | | 2685,0 | 5508,0 |
| weld point, N, min | | | Not standardized, the definition necessarily | 0,4 |
| wear scar diameter, 392 N, 60 minutes, mm | | | Not standardized, the definition necessarily | 0,5 |
| wear scar diameter, 588 N, 50 minutes, mm | | | Not standardized, the definition necessarily | 879,6 |
| Density at 20 °C, kg/m ³ | ASTM D 4052 | - | Not standardized, the definition necessarily | 882,8 |
| Density at 15 °C, kg/m ³ | ASTM D 4052 | - | Not standardized, the definition necessarily | |
| Appearance | Visual | - | Bright and clear liquid without foreign substances | Bright and clear liquid without foreign substances |
| Self-ignition point, °C, min | GOST 12 1-044 | 165 | 165 | 348 |

Conclusion: Gear oil Gazpromneft GL-5 80W-90 The product meets the requirements of Technical regulations of the Customs Union 030/2012 and STO 84035624-068-2012, revision: 1-3

Shelf life - 5 years from date of manufacture

Sampling conditions - GOST 2517-2012

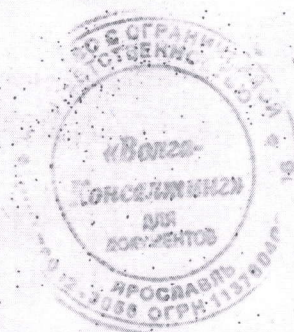
Storage conditions - GOST 1510-84

Manufacturer: "Gazpromneft-lubricants", LTD, Russia, 644040, Omsk, avenue Gubkina, 1.

Testing Laboratory: Laboratory of oil and petrochemistry, accreditation certificate № RA.RU.518884 from 18.11.2016. 1, Gubkina avenue, Omsk, 644040, Russia

Head of shift Laboratory: Gorchakova S.V.

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КОПИЯ ВЕРНА

